

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P281572

Luminaire Tested: **LDA2B208030D010 EU2B20SP158030 2LBASQC1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208030D010 EU2B20SP158030 2LBASQC1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2002.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

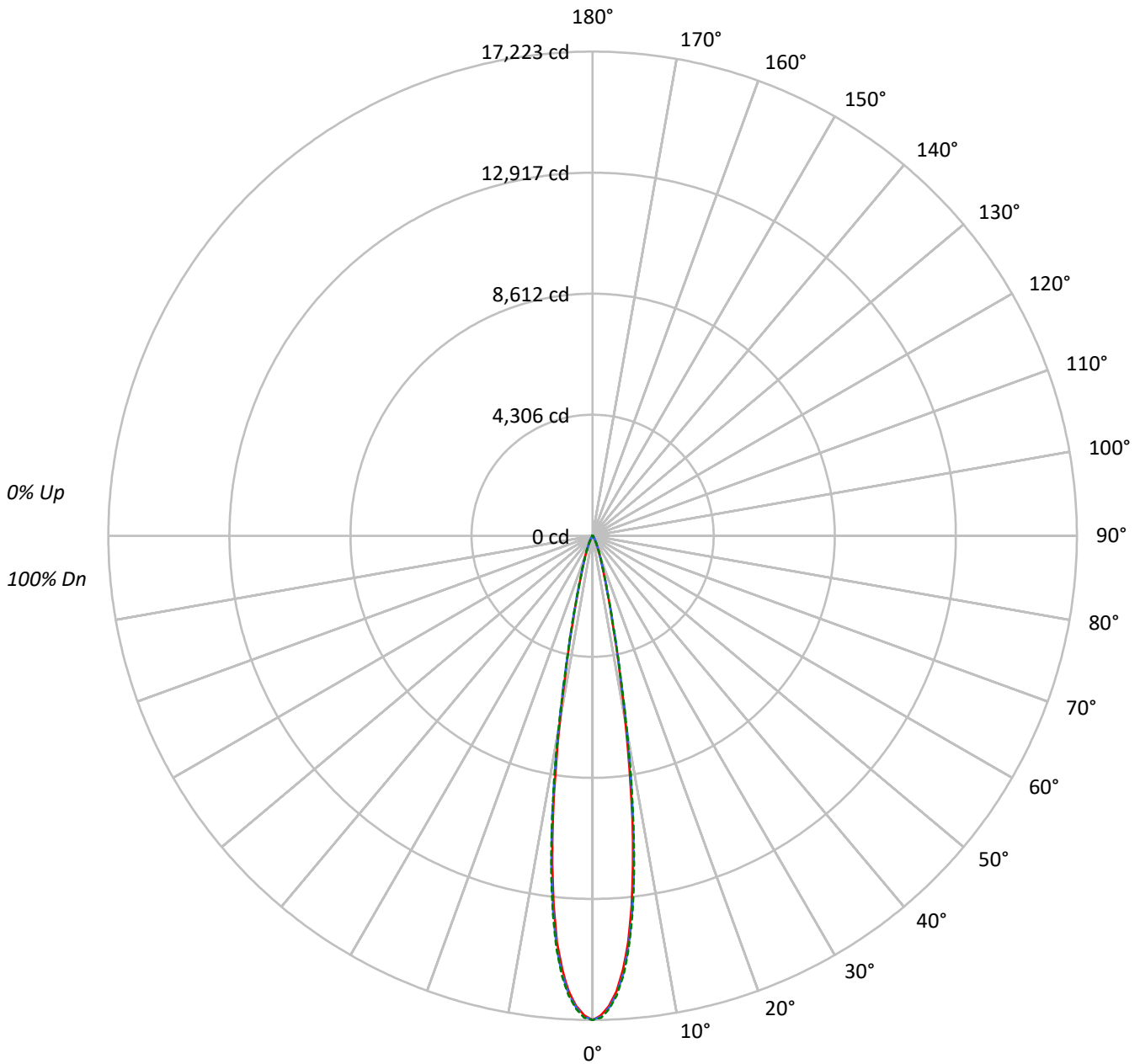
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	90	90	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8496973	8496973	8496973
5°	7191670	7266898	7298495
10°	3362929	3490377	3497140
15°	985012	999313	998802
20°	395554	396079	396551
25°	176374	194284	180566
30°	74914	103056	68305
35°	34390	47761	32041
40°	11206	18677	9983
45°	0	6768	0
50°	0	0	0
55°	3355	1634	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	5398	0	0
85°	10755	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1138.2	56.8
10°-20°	645.1	32.2
20°-30°	168.5	8.4
30°-40°	43.4	2.2
40°-50°	4.3	0.2
50°-60°	1.4	0.1
60°-70°	0.2	0.0
70°-80°	1.4	0.1
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1951.8	97.5
0°-40°	1995.2	99.6
0°-60°	2000.8	99.9
0°-90°	2002.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17223	17223	17223	17223	17223	
5°	14521	14651	14673	14580	14737	1124
15°	1928	1955	1956	1934	1956	633
25°	324	351	357	340	332	161
35°	57	61	79	54	53	39
45°	0	4	10	1	0	3
55°	4	5	2	1	0	3
65°	0	0	0	0	0	1
75°	0	1	0	0	0	4
85°	2	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17222.6	17222.6	17222.6	17222.6	17222.6
1°	17061.1	17128.8	17108.5	17084.3	17152.0
2°	16732.3	16798.1	16792.3	16760.3	16839.7
3°	16225.5	16317.4	16317.4	16270.0	16368.7
4°	15470.2	15610.4	15624.0	15557.2	15680.1
5°	14521.4	14651.0	14673.3	14580.4	14737.1
6°	13236.1	13413.1	13463.4	13356.1	13516.6
7°	11759.3	11945.0	12021.4	11901.5	12081.4
8°	10166.5	10299.9	10391.8	10254.5	10437.3
9°	8384.0	8576.5	8660.6	8527.2	8705.1
10°	6712.8	6889.8	6967.2	6935.3	6980.7
11°	5213.8	5370.5	5422.7	5379.2	5400.4
12°	4082.3	4145.1	4179.0	4150.0	4164.5
13°	3099.6	3183.8	3199.3	3186.7	3193.5
14°	2420.7	2461.3	2478.8	2472.9	2475.9
15°	1928.5	1954.6	1956.5	1934.3	1955.5
16°	1553.2	1573.5	1582.2	1559.0	1587.1
17°	1272.7	1289.2	1298.9	1275.6	1287.2
18°	1047.4	1060.0	1073.5	1053.2	1070.6
19°	879.1	886.9	887.8	882.0	886.9
20°	753.4	749.5	754.4	743.7	755.3
22.5°	496.1	505.8	517.4	504.8	509.7
25°	324.0	351.1	356.9	340.4	331.7
26°	266.9	301.7	317.2	291.1	263.1
27°	221.5	246.6	266.9	232.1	209.9
28°	194.4	215.7	236.0	203.1	177.0
29°	162.5	183.8	218.6	180.9	164.4
30°	131.5	147.0	180.9	137.3	119.9
32.5°	74.5	87.0	117.0	81.2	66.7
35°	57.1	60.9	79.3	54.2	53.2
37.5°	49.3	44.5	61.9	44.5	35.8
40°	17.4	26.1	29.0	19.3	15.5
42.5°	7.7	7.7	12.6	3.9	3.9
45°	0.0	3.9	9.7	1.0	0.0
47.5°	0.0	0.0	1.9	0.0	0.0
50°	0.0	1.9	0.0	0.0	0.0
52.5°	1.9	0.0	0.0	0.0	0.0
55°	3.9	4.8	1.9	1.0	0.0
57.5°	5.8	4.8	1.9	1.9	1.9
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.9	1.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	1.0	0.0	0.0	0.0
77.5°	9.7	1.9	2.9	1.9	3.9
80°	1.9	0.0	0.0	0.0	0.0
82.5°	3.9	0.0	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0	0.0
87.5°	0.0	1.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







70°	0.0	0.0	0.0	0.0	0.0
72.5°	3.9	2.9	0.0	0.0	3.9



(END OF REPORT)